



# OVERDALE ELEMENTARY SCHOOL

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BULLITT COUNTY

651 OVERDALE DRIVE, LOUISVILLE, KY 40229

PRIMARY EDUCATION CLASSROOMS, CAFETERIA, GYMNASIUM, MEDIA CENTER AND ADMINISTRATIVE AREAS.

TOTAL SQUARE FOOTAGE OF BUILDING: 77,900 S.F.

ENERGY COST: ESTIMATED \$0.73/S.F.; \$57,000.00/YR

## HIGH-PERFORMANCE DESIGN ELEMENTS:

- NORTH-SOUTH ORIENTATION MAXIMIZES PASSIVE HEATING AND SHADING
- LIGHT SHELVES FOR DAYLIGHTING ARE INCORPORATED IN SOUTH FACING SPACES
- LARGE WINDOWED AREAS IN NORTH FACING SPACES FOR DAYLIGHTING AND VIEWS
- ICF SUPER-INSULATIVE WALL CONSTRUCTION
- GEOTHERMAL HVAC SYSTEM WITH DISTRIBUTIVE PUMPING STRATEGY
- ROOF INSULATION DESIGN OF R-30 WITH STANDING SEAM METAL ROOF PANELS
- DEDICATED OUTDOOR AIR SYSTEMS WITH ENERGY RECOVERY TECHNOLOGY
- INTERACTIVE BUILDING AUTOMATION SYSTEM
- HIGH EFFICIENCY WATER HEATERS

## ENERGY STAR CHALLENGE CRITERIA

- ENERGY USE INTENSITY: 114.4 kBTU/S.F./YR
- PERCENT CO<sub>2</sub> REDUCTION: 35%
- ENERGY STAR RATING: 90
- ENERGY SAVINGS: 4,306,194 kBTU
- CO<sub>2</sub> SAVINGS: 282.4 TONS

K. NORMAN BERRY ASSOCIATES ARCHITECTS PLLC STRIVE TO PROVIDE OUR CLIENTS WITH DESIGNS OF THE HIGHEST QUALITY LEARNING ENVIRONMENTS AND THE MOST EFFICIENT SYSTEMS TO MEET THEIR OBJECTIVES FOR LONG-TERM COST EFFICIENCY.



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